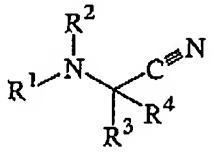
USCA2332 US CNT PATENT

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

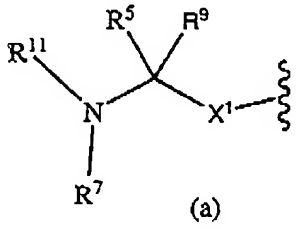
1. (Currently Amended) A compound of Formula (I):



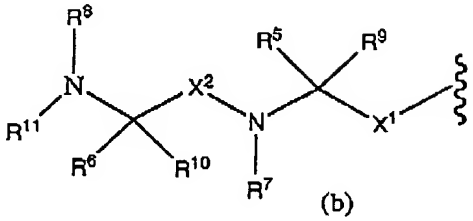
I

in which:

R^1 is a group of Formula (a) or (b):



(a)



(b)

wherein:

X^1 ~~and X^2 independently are~~ is -C(O)~~ or $-CH_2S(O)_2-$~~;

R^5 ~~and R^6 are~~ is hydrogen or (C_{1-6})alkyl;

R^7 ~~and R^8 are~~ is hydrogen or (C_{1-6})alkyl or as defined below;

R^9 ~~and R^{10} independently are~~ is ~~(i) (C_{1-6})alkyl optionally substituted with cyano, halo or nitro; or~~

~~(ii)~~ a group selected from $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^{12})OR^{12}$, $-X^3OP(O)(OR^{12})OR^{12}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$, $-X^3C(O)R^{13}$, $-X^3C(O)R^{14}$, $-X^3C(O)OR^{14}$, $-X^3OC(O)R^{14}$, $-X^3NR^{15}C(O)R^{14}$, $-X^3NR^{15}C(O)OR^{14}$, $-X^3C(O)NR^{14}R^{15}$, $-X^3S(O)_2NR^{14}R^{15}$, $-X^3NR^{15}C(O)NR^{14}R^{15}$, $-X^3NR^{15}C(NR^{15})NR^{14}R^{15}$, $-X^4SR^{14}$ $-X^4S(O)R^{14}$, $-X^4S(O)_2R^{14}$, $-X^4OR^{14}$, or $-X^4NR^{14}R^{15}$, wherein X^3 is (C_{1-6})alkylene, X^4 is a bond or (C_{1-6})alkylene, R^{12} at

each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{14} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, ~~hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ or (C_{9-12})polycycloaryl(C_{0-6})alkyl, ~~or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl~~ and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, ~~heterocycloalkyl,~~ aryl, ~~heteroaryl,~~ or polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl and R^{17} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, ~~hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ or (C_{9-12})polycycloaryl(C_{0-6})alkyl ~~or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl,~~; or

~~(iii)~~ a group selected from ~~(C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ and (C_{9-12})polycycloaryl(C_{0-6})alkyl, ~~and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl,~~ wherein said ~~cycloalkyl, heterocycloalkyl,~~ aryl, ~~heteroaryl,~~ or polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, ~~wherein X^4, R^{16} and R^{17} are as defined above;~~ wherein within R^9 ~~and/or R^{10}~~ any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^4)OR^{12}$, $-X^4OP(O)(OR^{12})OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above; ~~or~~

~~R^9 taken together with R^7 and/or R^{10} taken together with R^8 form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene;~~ and

R^{11} is $-X^5X^6R^{18}$, wherein X^5 is -C(O)-, ~~-C(O)C(O)- or $-S(O)_2-$~~, X^6 is a bond, ~~-O- or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl;~~ and R^{18} is morpholinyl ~~(i) (C_{1-10})alkyl optionally substituted by cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{20}$, $-SR^{20}$, $-S(O)R^{20}$, $-S(O)_2R^{20}$, $-C(O)R^{20}$, $-C(O)OR^{20}$, $-C(O)NR^{20}R^{21}$, $-NR^{20}R^{21}$, $-NR^{21}C(O)R^{20}$, $-NR^{21}C(O)OR^{20}$, $-NR^{21}C(O)NR^{20}R^{21}$ or $-NR^{21}C(NR^{21})NR^{20}R^{21}$, wherein R^{12} and R^{13} are as defined above, R^{20} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl and R^{21} at each occurrence independently is hydrogen or (C_{1-6})alkyl, or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^4OR^{22}$, $-X^4SR^{22}$, $-X^4S(O)R^{22}$, $-X^4S(O)_2R^{22}$, $-X^4C(O)R^{22}$, $-X^4C(O)OR^{22}$, $-X^4C(O)NR^{22}R^{23}$, $-X^4NR^{22}R^{23}$, $-X^4NR^{23}C(O)R^{22}$, $-X^4NR^{23}C(O)OR^{23}$, $-X^4NR^{23}C(O)NR^{22}R^{23}$ or $-X^4NR^{23}C(NR^{23})NR^{22}R^{23}$, wherein X^4 is as defined above, R^{22} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{23} at each occurrence independently is hydrogen or (C_{1-6})alkyl;~~ wherein within R^{11} said morpholino ~~any alicyclic or aromatic ring system present~~ may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-6})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$,

$-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above;

R^2 is hydrogen or (C_{1-6})alkyl ~~or as defined below~~;

R^3 is hydrogen~~,~~ or (C_{1-6})alkyl ~~or as defined below~~; and

R^4 is (i) hydrogen or (C_{1-6})alkyl, wherein said alkyl is optionally substituted with ~~cyano,~~ halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12}, R^{13}, R^{14} and R^{15} are as defined above, or (ii) a ~~group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ (C_{9-12})polycycloaryl(C_{0-6})alkyl ~~and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl~~, wherein said ~~cycloalkyl, heterocycloalkyl, aryl, heteroaryl,~~ polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4, R^{16} and R^{17} are as defined above; ~~wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above, or~~

~~R^4 and R^2 taken together form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene, or~~

~~R^4 and R^3 together with the carbon atom to which both R^4 and R^3 are attached form (C_{3-8})cycloalkylene or (C_{3-8})heterocycloalkylene;~~

~~and the~~ an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

2. (Currently Amended) The compound of Claim 1 in which:

R^1 is a group of Formula (a) wherein ~~within Formula (a)~~:

X^1 is -C(O)-;

R^5 is hydrogen or (C_{1-6})alkyl;

R^7 is hydrogen or methyl;

R^9 is ~~(i)~~ (C_{1-6})alkyl ~~optionally~~ substituted with $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{14} is ~~(C_{3-10})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-10})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-10})aryl(C_{0-6})alkyl, ~~hetero(C_{5-10})aryl(C_{0-6})alkyl,~~ or (C_{9-10})polycycloaryl(C_{0-6})alkyl, ~~or hetero(C_{8-10})polycycloaryl(C_{0-6})alkyl~~ and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, ~~heterocycloalkyl,~~ aryl, ~~heteroaryl,~~ or polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, ~~$-X^3X^4OR^{16}$~~, ~~$-X^3X^4SR16$~~, ~~$-X^3X^4S(O)R^{16}$~~, ~~$-X^3X^4S(O)_2R^{16}$~~, ~~$-X^3X^4C(O)R^{16}$~~, ~~$-X^3X^4C(O)OR^{16}$~~, ~~$-X^3X^4OC(O)R^{16}$~~, ~~$-X^3X^4NR^{16}R^{17}$~~, ~~$-X^3X^4NR^{17}C(O)R^{16}$~~, ~~$-X^3X^4NR^{17}C(O)OR^{16}$~~, ~~$-X^3X^4C(O)NR^{16}R^{17}$~~, ~~$-X^3X^4S(O)_2NR^{16}R^{17}$~~, ~~$-X^3X^4NR^{17}C(O)NR^{16}R^{17}$~~ or ~~$-X^3X^4NR^{17}C(NR^{17})NR^{16}R^{17}$~~, wherein ~~$X^3$~~ X^4 is a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl, and R^{17} is (C_{3-10})cycloalkyl(C_{0-6})alkyl, ~~hetero(C_{3-10})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-10})aryl(C_{0-6})alkyl, ~~hetero(C_{5-10})aryl(C_{0-6})alkyl,~~ or (C_{9-10})polycycloaryl(C_{0-6})alkyl ~~or hetero(C_{8-10})polycycloaryl(C_{0-6})alkyl, or (ii) a group selected from (C_{3-10})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-10})cycloalkyl(C_{0-6})alkyl, (C_{6-10})aryl(C_{0-6})alkyl, hetero(C_{5-10})aryl(C_{0-6})alkyl, (C_{9-10})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-10})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^3OR^{16}$, $-X^3SR^{16}$, $-X^3S(O)R^{16}$, $-X^3S(O)_2R^{16}$, $-X^3C(O)R^{16}$, $-X^3C(O)OR^{16}$, $-X^3OC(O)R^{16}$, $-X^3NR^{16}R^{17}$, $-X^3NR^{17}C(O)R^{16}$, $-X^3NR^{17}C(O)OR^{16}$, $-X^3C(O)NR^{16}R^{17}$, $-X^3S(O)_2NR^{16}R^{17}$, $-X^3NR^{17}C(O)NR^{16}R^{17}$ or $-X^3NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^3, R^{16} and R^{17} are as defined above;~~, wherein within R^9 any alicyclic or aromatic ring system present may be substituted further by

1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, ~~$-X^3X^4NR^{12}R^{12}$~~, ~~$-X^3X^4NR^{12}C(O)OR^{12}$~~, ~~$-X^3X^4NR^{12}C(O)NR^{12}R^{12}$~~, ~~$-X^3X^4NR^{12}C(NR^{12})NR^{12}R^{12}$~~, ~~$-X^3X^4OR^{12}$~~, ~~$-X^3X^4SR^{12}$~~, ~~$-X^3X^4C(O)OR^{12}$~~, ~~$-X^3X^4C(O)NR^{12}R^{12}$~~, ~~$-X^3X^4S(O)_2NR^{12}R^{12}$~~, ~~$-X^3X^4P(O)(OR^3)OR^{12}$~~, ~~$-X^3X^4OP(O)(OR^3)OR^{12}$~~, ~~$-X^3X^4OC(O)R^{13}$~~, ~~$-X^3X^4NR^{12}C(O)R^{13}$~~, ~~$-X^3X^4S(O)R^{13}$~~, ~~$-X^3X^4S(O)_2R^{13}$~~ and ~~$-X^3X^4C(O)R^{13}$~~, wherein ~~$X^3$~~ X^4, R^{12}, and R^{13} are ~~is~~ as defined above~~, R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, and R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl; and~~

~~R^{11} is $-X^4X^5R^{18}$, wherein X^4 is $-C(O)-$ or $-S(O)_2-$, X^5 is a bond, $-O-$ or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl, and R^{18} is (i) (C_{1-10})alkyl or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^9OR^{24}$, $-X^9C(O)R^{24}$, $-X^9C(O)OR^{24}$, $-X^9C(O)NR^{24}R^{25}$, $-X^9NR^{24}R^{25}$, $-X^9NR^{25}C(O)R^{24}$, $-X^9NR^{25}C(O)OR^{24}$, $-X^9NR^{25}C(O)NR^{24}R^{25}$ or $-X^9NR^{25}C(NR^{25})NR^{24}R^{25}$, wherein X^9 is a bond or (C_{1-6})alkylene, R^{24} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{25} is hydrogen or (C_{1-6})alkyl, wherein within R^{11} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 substituents independently selected from (C_{1-6})alkyl, halo, halo-substituted (C_{1-4})alkyl, $-OR^{12}$, $-X^3SR^{12}$, $-C(O)OR^{12}$ and $-X^3NR^{12}C(O)OR^{12}$, wherein X^3 is a bond or (C_{1-6})alkylene and R^{14} is hydrogen or (C_{1-6})alkyl;~~

R^2 is hydrogen;

R^3 is hydrogen or (C_{1-4})alkyl ~~or taken with R^4 together with the carbon atom to which both R^3 and R^4 are attached forms (C_{3-8})cycloalkylene~~; and

~~R^4 is hydrogen or as defined above; and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

3. (Currently Amended) The compound of Claim 2 in which:

R^1 is a group of Formula (a) wherein ~~within Formula (a)~~:

R^5 and R^7 both are hydrogen;

R^9 is ~~(i)~~ (C_{1-6})alkyl ~~optionally~~ substituted with $-OR^{14}$ or $-SR^{14}$, wherein R^{14} is ~~(C_{3-6})cycloalkyl(C_{0-6})alkyl,~~ phenyl(C_{0-6})alkyl, or biphenylyl(C_{0-6})alkyl ~~or hetero(C_{5-6})aryl(C_{0-6})alkyl,~~; or

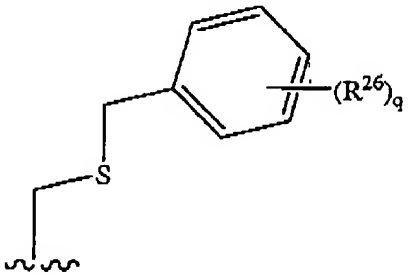
~~(ii)~~ a group selected from ~~(C_{3-6})cycloalkyl(C_{0-6})alkyl,~~ phenyl(C_{0-6})alkyl, or biphenylyl(C_{0-6})alkyl ~~or hetero(C_{5-10})aryl(C_{0-6})alkyl~~; wherein within R^9 any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^3)OR^{12}$, $-X^3OP(O)(OR^3)OR^{12}$, $-X^3OC(O)R^{13}$, $-X^3OC(O)R^{13}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$ and $-X^3C(O)R^{13}$, wherein X^3 is a bond or (C_{1-6})alkylene, R^{12} at each occurrence independently is hydrogen, (C_{1-3})alkyl or halo-substituted (C_{1-3})alkyl and R^{13} is (C_{1-3})alkyl or halo-substituted (C_{1-3})alkyl; and

R^{11} is ~~$-X^4X^5R^{18}$~~ $-X^5X^6R^{18}$, wherein ~~X^4~~ X^5 is -C(O)- , ~~X^5~~ X^6 is a bond and R^{18} is morpholinyl ~~(i) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl or (ii) phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said phenyl or heteroaryl is substituted by $-X^9OR^{24}$, $-X^9C(O)R^{24}$, $-X^9C(O)OR^{24}$, $-X^9C(O)NR^{24}R^{25}$, $-X^9NR^{24}R^{25}$, $-X^9NR^{25}C(O)R^{24}$, $-X^9NR^{25}C(O)OR^{24}$, $-X^9NR^{25}C(O)NR^{24}R^{25}$ or $-X^9NR^{25}C(NR^{25})NR^{24}R^{25}$, wherein X^9 is a bond or (C_{1-6})alkylene, R^{24} is phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{25} is hydrogen or (C_{1-6})alkyl~~, wherein within R^{11} said morpholinyl ~~any aromatic ring system present~~ may be substituted further by 1 to 5 substituents independently selected from (C_{1-6})alkyl, halo, halo-substituted (C_{1-4})alkyl, $-OR^{12}$, $-X^3SR^{12}$, $-C(O)OR^{12}$ and $-X^3NR^{12}C(O)OR^{12}$ wherein X^3 is a bond or (C_{1-6})alkylene and R^{12} is hydrogen or (C_{1-6})alkyl; and

R^3 and R^4 are both hydrogen; ~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof~~; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers; and the pharmaceutically acceptable salts thereof~~.

4. (Canceled)

5. (Currently Amended) The compound of ~~Claim 4~~ Claim 3 in ~~which within Formula (a),~~ wherein R^9 is a group having the following formula:



in which q is 0 to 5 and R^{26} at each occurrence is independently selected from (C_{1-4})alkyl, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-OR^{12}$, $-SR^{12}$ and $-C(O)OR^{12}$, wherein R^{12} is hydrogen, (C_{1-3})alkyl or halo-substituted (C_{1-3})alkyl and R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl; and

R^{11} is morpholinylcarbonyl, wherein said morpholinylcarbonyl may be substituted further by 1 to 2 substituents independently selected from (C_{1-6})alkyl, *tert*-butoxycarbonylamino, *tert*-butoxycarbonylaminomethyl, bromo, chloro, ethoxy, fluoro, hydroxy, methoxy and methylsulfanyl;

~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

6. (Currently Amended) The compound of Claim 3 ~~in which within Formula (a),~~ wherein R^9 is benzylsulfanylmethyl, 2-bromobenzylsulfanylmethyl, 2-chlorobenzylsulfanyl, 2-(2-chlorophenylsulfanyl)ethyl, ~~cyclohexyl, 4-ethylidenecyclohexyl,~~ 2-iodobenzylsulfanylmethyl, 2-methylbenzylsulfanylmethyl, ~~3-methyl-3-trifluorocarbonyloxycyclohexylmethyl, 4-methylenecyclohexylmethyl~~ or 2-nitrobenzylsulfanylmethyl and R^{11} is ~~4-*tert*-butoxycarbonylaminobenzoyl, 3-*tert*-butoxycarbonylaminomethylbenzoyl, 2-(3,5-dimethoxyphenyl)thiazol-4-ylcarbonyl, fur-3-ylcarbonyl, 4-methoxybenzoyl, 3-methylbenzoyl, 3-phenoxybenzoyl, 5-pyrid-2-ylthien-2-ylcarbonyl, 3-benzoylbenzoyl, 4-methylbenzoyl, thien-2-ylcarbonyl,~~ morpholin-4-ylcarbonyl~~, 5-bromothien-2-ylcarbonyl, 5-chlorothien-2-ylcarbonyl, 5-methylthien-2-ylcarbonyl, 2-(2-chloro-6-methylphenyl)ureidobenzoyl, cyclohexyl-1-en-1-ylcarbonyl, 3-ethoxybenzoyl, 3-fluorobenzoyl, 4-fluorobenzoyl and piperidin-1-ylcarbonyl~~;

and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers; and the pharmaceutically acceptable salts thereof.

7. (Currently Amended) The compound of Claim 6 selected from a group consisting of:

N-(2-benzylsulfanyl-1*R*-cyanomethylcarbamoylethyl)-4-hydroxybenzamide;

N-[2-(2-bromobenzylsulfanyl)-1*R*-cyanomethylcarbamoylethyl]benzamide;

N-[1*R*-cyanomethylcarbamoyl-2-(2-iodobenzylsulfanyl)ethyl]benzamide;

N-[1*R*-cyanomethylcarbamoyl-2-(2-cyanobenzylsulfanyl)ethyl]morpholine-4-carboxamide;

N-[3-(2-chlorophenylsulfanyl)-1*R*-cyanomethylcarbamoylpropyl]benzamide;

N-[1*R*-cyanomethylcarbamoyl-2-(2-nitrobenzylsulfanyl)ethyl]morpholine-4-carboxamide;

N-[1*R*-cyanomethylcarbamoyl-2-(2-methylbenzylsulfanyl)ethyl]morpholine-4-carboxamide; and

N-[1*R*-cyanomethylcarbamoyl-2-(2-methylbenzylsulfanyl)ethyl]benzamide; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers; ~~and~~ or the pharmaceutically acceptable salts thereof.

8. (Currently Amended) A pharmaceutical composition comprising a compound of Claim 1, or ~~a~~ an *N*-oxide derivative, prodrug derivative, individual isomer, mixture of isomers, or a pharmaceutically acceptable salt thereof in admixture with one or more suitable excipients.

9. (Withdrawn) A method of treating a disease in an animal in which cysteine protease activity contributes to the pathology and/or symptomatology of the disease, which method comprises administering to the animal a therapeutically effective amount of compound of Claim 1; or a *N*-oxide derivative, prodrug derivative, individual isomer or mixture of isomers or a pharmaceutically acceptable salt thereof.

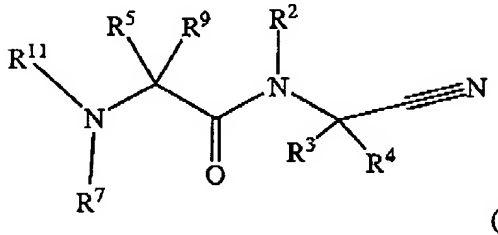
10. (Withdrawn) The method of Claim 9 in which the cysteine protease is cathepsin S.

11. (Withdrawn) The method of Claim 10 in which the disease is an autoimmune disorder, allergic disorder, allogeneic immune response, a disorder involving excessive elastolysis, cardiovascular disorders or a disorder involving fibril formation.

12. (Withdrawn) The method of Claim 11 in which the disorder is selected from juvenile onset diabetes, multiple sclerosis, pemphigus vulgaris, Graves' disease, myasthenia gravis, systemic lupus erythemotasus, rheumatoid arthritis, Hashimoto's thyroiditis, asthma, organ transplant or tissue graft rejections, chronic obstructive pulmonary disease, bronchiolitis, excessive airway elastolysis in asthma and bronchitis, pneumonities, plaque rupture, atheroma and systemic amyloidosis.

13. (Withdrawn) A compound according to claim 1 in which R^1 is a group of formula (a) wherein X^1 is $-CH_2S(O)_2-$; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers; and the pharmaceutically acceptable salts thereof.

14. (Currently Amended) A compound of Formula (II):



(II)

wherein:

R^2 is hydrogen or (C_{1-6})alkyl ~~or as defined below~~;

R^3 is hydrogen, (C_{1-6})alkyl ~~or as defined below~~;

R^4 is ~~(i)~~ hydrogen or (C_{1-6})alkyl, wherein said alkyl optionally is substituted with ~~cyano,~~ halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{14} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, ~~hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ or (C_{9-12})polycycloaryl(C_{0-6})alkyl ~~or hetero(C_{3-12})polycycloaryl(C_{0-6})alkyl,~~ and R^{15} is hydrogen

or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, ~~heterocycloalkyl,~~ aryl, ~~heteroaryl,~~ or polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl and R^{17} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, ~~hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl,~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ or (C_{9-12})polycycloaryl(C_{0-6})alkyl ~~or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl,~~; or

~~(ii)~~ a group selected from ~~(C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ (C_{9-12})polycycloaryl(C_{0-6})alkyl ~~and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl~~, wherein said ~~cycloalkyl, heterocycloalkyl, aryl, heteroaryl,~~ polycycloaryl ~~or heterpolycycloaryl~~ ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$~~, wherein X^4, R^{16} and R^{17} are as defined above~~; wherein within R^4 any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$,; ~~wherein X^4, R^{12} and R^{13} are as defined above, or~~

~~R^4 and R^3 taken together form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene, or~~

~~R^4 and R^3 together with the carbon atom to which both R^4 and R^3 are attached form (C_{3-8})cycloalkylene or (C_{3-8})heterocycloalkylene;~~

R^5 is hydrogen or (C_{1-6})alkyl;

R^7 is hydrogen or (C_{1-6})alkyl;

R^9 is ~~(C_{6-12})aryl(C_{1-6})alkyl~~ (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{1-6})alkyl,~~ $-X^4OR^{14}$, $-X^4SR^{14}$, $-X^4S(O)R^{14}$, $-X^4S(O)_2R^{14}$ or $-X^4NR^{14}R^{15}$, ~~wherein X^4, R^{14} and R^{15} are as defined above~~ and wherein within R^9 said aryl ~~or heteroaryl~~ ring optionally is substituted by 1 to 5 radicals independently selected from (C_{1-6})alkyl, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$,

$-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)R^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, and $-X^4S(O)_2R^{13}$~~, wherein X^4, R^{12} and R^{13} are as defined above~~; and

R^{11} is $-X^5X^6R^{18}$, wherein X^5 is -C(O)-, ~~$-C(O)C(O)-$ or $-S(O)_2-$~~, X^6 is a bond, ~~$-O-$ or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl~~, and R^{18} is morpholinyl ~~(i) (C_{1-10})alkyl optionally substituted by cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{13}$, $-NR^{12}C(NR^{12})NR^{12}R^{13}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{20}$, $-SR^{20}$, $-S(O)R^{20}$, $-S(O)_2R^{20}$, $-C(O)R^{20}$, $-C(O)OR^{20}$, $-C(O)NR^{20}R^{21}$, $-NR^{20}R^{21}$, $-NR^{21}C(O)R^{20}$, $-NR^{21}C(O)OR^{20}$, $-NR^{21}C(O)NR^{20}R^{21}$ or $-NR^{21}C(NR^{21})NR^{20}R^{21}$, wherein R^{12} and R^{13} are as defined above, R^{20} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl and R^{21} at each occurrence independently is hydrogen or (C_{1-6})alkyl, or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^4OR^{22}$, $-X^4SR^{22}$, $-X^4S(O)R^{23}$, $-X^4S(O)_2R^{23}$, $-X^4C(O)R^{22}$, $-X^4C(O)OR^{22}$, $-X^4C(O)NR^{22}R^{23}$, $-X^4NR^{22}R^{23}$, $-X^4NR^{23}C(O)R^{22}$, $-X^4NR^{23}C(O)OR^{22}$, $-X^4NR^{23}C(O)NR^{22}R^{23}$ or $-X^4NR^{23}C(NR^{23})NR^{22}R^{23}$, wherein X^4 is as defined above, R^{22} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{23} at each occurrence independently is hydrogen or (C_{1-6})alkyl~~; wherein within R^{11} said morpholinyl ~~any alicyclic or aromatic ring system present~~ may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$~~, wherein X^4, R^{12} and R^{13} are as defined above~~; ~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

15. (Currently Amended) The compound of Claim 14 in which:

R^2 is hydrogen;

R^3 is hydrogen~~,~~ or methyl ~~or taken with R^4 together with the carbon atom to which both R^3 and R^4 are attached forms (C_{3-8})cycloalkylene~~;

R^4 is hydrogen~~,~~ or methyl ~~or as defined above~~;

R^5 is hydrogen or (C_{1-6})alkyl;

R^7 is hydrogen or methyl;

R^9 represents (C_{6-12})aryl(C_{0-6})alkyl, ~~hetero(C_{5-12})aryl(C_{0-6})alkyl,~~ $-X^4OR^{14}$, $-X^4SR^{14}$, $-X^4S(O)R^{14}$ or $-X^4NR^{14}R^{15}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{14} is (C_{6-12})aryl(C_{0-6})alkyl, ~~or hetero(C_{5-12})aryl(C_{0-6})alkyl~~ and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^9 said aryl ~~or heteroaryl~~ ring optionally is substituted by 1 to 5 radicals independently selected from (C_{1-6})alkyl, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4C(O)R^{12}$, and $-X^4SR^{12}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, and R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl; and

R^{11} is ~~$X^4X^5R^{18}$~~ $-X^5X^6R^{18}$, wherein wherein ~~X^4~~ X^5 is -C(O)- ~~or $-S(O)_2-$~~, ~~X^5~~ X^6 is a bond, ~~-O- or NR^{19}, wherein R^{19} is hydrogen or (C_{1-6})alkyl,~~ and R^{18} is morpholinyl, ~~(i) (C_{1-10})alkyl or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by X^9OR^{24}, $X^9C(O)R^{24}$, $X^9C(O)OR^{24}$, $X^9C(O)NR^{24}R^{25}$, $X^9NR^{24}R^{25}$, $X^9NR^{25}C(O)R^{24}$, $X^9NR^{25}C(O)OR^{24}$, $X^9NR^{25}C(O)NR^{24}R^{25}$ or $X^9NR^{25}C(NR^{25})NR^{24}R^{25}$, wherein X^9 is a bond or (C_{1-6})alkylene, R^{24} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{25} is hydrogen or (C_{1-6})alkyl,~~ wherein within R^{11} said morpholinyl ~~any alicyclic or aromatic ring system present~~ may be substituted further by 1 to 5 substituents independently selected from (C_{1-6})alkyl, halo, halo-substituted (C_{1-4})alkyl, $-OR^{12}$, $-X^3SR^{12}$, $-C(O)OR^{12}$ and $-X^3NR^{12}C(O)OR^{12}$, wherein X^3 is a bond or (C_{1-6})alkylene and R^{14} is hydrogen or (C_{1-6})alkyl; ~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

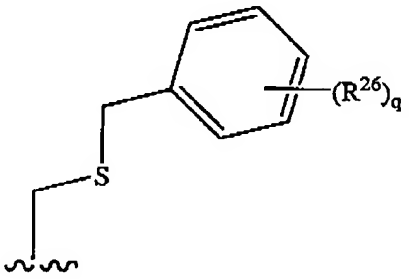
16. (Currently Amended) The compound of Claim 15 in which:

R^3, R^4, R^5 and R^7 each are hydrogen;

R^9 ~~represents~~ is benzyl, benzyloxymethyl, benzylsulfanylethyl, benzylsulfanylmethyl, benzylsulfinylmethyl, ~~indolylmethyl,~~ naphthylmethyl, phenethyl, phenoxyethyl, phenylamino, ~~pyridylmethyl, pyridylsulfanylethyl,~~ or phenylsulfanylethyl, ~~thiazolyl or thienyl,~~ wherein within R^9 the aromatic ring may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4C(O)R^{12}$, and $-X^4SR^{12}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, and R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl; and

R^{11} is ~~is $X^4X^5R^{18}$~~ $-X^5X^6R^{18}$, wherein ~~X^4~~ X^5 is -C(O)- , X^5 is a bond, and R^{18} is morpholinyl ~~(i) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl or (ii) phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said phenyl or heteroaryl is substituted by $-X^9OR^{24}$, $X^9C(O)R^{24}$, $X^9C(O)OR^{24}$, $X^9C(O)NR^{24}R^{25}$, $X^9NR^{24}R^{25}$, $X^9NR^{25}C(O)R^{24}$, $X^9NR^{25}C(O)OR^{24}$, $X^9NR^{25}C(O)NR^{24}R^{25}$ or $X^9NR^{25}C(NR^{25})NR^{24}R^{25}$, wherein X^9 is a bond or (C_{1-6})alkylene, R^{24} is phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{25} is hydrogen or (C_{1-6})alkyl~~, wherein within R^{11} said morpholinyl ~~any aromatic ring system present~~ may be substituted further by 1 to 5 substituents independently selected from (C_{1-6})alkyl, halo, halo-substituted (C_{1-4})alkyl, $-OR^{12}$, $-X^3SR^{12}$, $-C(O)OR^{12}$ and $-X^3NR^{12}C(O)OR^{12}$ wherein X^3 is a bond or (C_{1-6})alkylene and R^{12} is hydrogen or (C_{1-6})alkyl; ~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

17. (Currently Amended) The compound of Claim 16 in which R^9 is a group having the following formula:



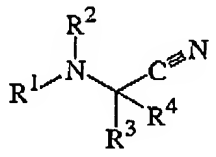
in which q is 0 to 5 and R^{26} at each occurrence is independently selected from (C_{1-4})alkyl, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-OR^{12}$, and $-SR^{12}$ ~~and $-C(O)OR^{12}$~~, wherein R^{12}

is hydrogen, (C_{1-3})alkyl or halo-substituted (C_{1-3})alkyl and R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl; ~~and the~~ or an *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers ~~and~~ or mixtures of isomers; ~~and the~~ or a pharmaceutically acceptable salts thereof.

18. (Canceled)

19. (Canceled)

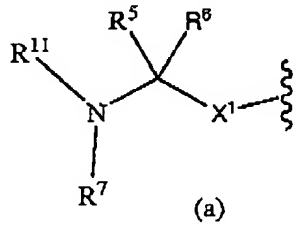
20. (Withdrawn) A method of treating a disease in an animal in which cathepsin S activity contributes to the pathology and/or symptomatology of the disease, which method comprising administering to the animal a therapeutically effective amount of a compound of Formula (I):



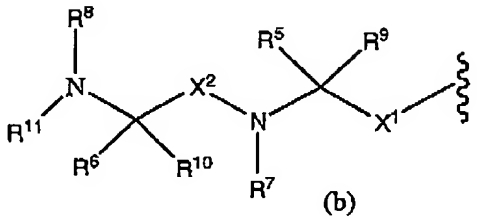
I

in which:

R^1 is a group of Formula (a) or (b):



(a)



(b)

wherein:

X^1 and X^2 independently are -C(O)- or -$CH_2S(O)_2$-;

R^5 and R^6 are hydrogen or (C_{1-6})alkyl;

R^7 and R^8 are hydrogen or (C_{1-6})alkyl or as defined below;

R^9 and R^{10} independently are (i) (C_{1-6})alkyl optionally substituted with cyano, halo or nitro or (ii) a group selected from $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$,

$-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^{12})OR^{12}$, $-X^3OP(O)(OR^{12})OR^{12}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$, $-X^3C(O)R^{13}$, $-X^3C(O)R^{14}$, $-X^3C(O)OR^{14}$, $-X^3OC(O)R^{14}$, $-X^3NR^{15}C(O)R^{14}$, $-X^3NR^{15}C(O)OR^{14}$, $-X^3C(O)NR^{14}R^{15}$, $-X^3S(O)_2NR^{14}R^{15}$, $-X^3NR^{15}C(O)NR^{14}R^{15}$, $-X^3NR^{15}C(NR^{15})NR^{14}R^{15}$, $-X^4SR^{14}$ $-X^4S(O)R^{14}$, $-X^4S(O)_2R^{14}$, $-X^4OR^{14}$, or $-X^4NR^{14}R^{15}$, wherein X^3 is (C_{1-6})alkylene, X^4 is a bond or (C_{1-6})alkylene, R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{14} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl and R^{17} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, or (iii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^4)OR^{12}$, $-X^4OP(O)(OR^{12})OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above, or

R^9 taken together with R^7 and/or R^{10} taken together with R^8 form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene; and

R^{11} is $-X^5X^6R^{18}$, wherein X^5 is -C(O)-, -C(O)C(O)- or $-S(O)_2-$, X^6 is a bond, -O- or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl, and R^{18} is (i) (C_{1-10})alkyl optionally substituted by cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{20}$, $-SR^{20}$, $-S(O)R^{20}$, $-S(O)_2R^{20}$, $-C(O)R^{20}$, $-C(O)OR^{20}$, $-C(O)NR^{20}R^{21}$, $-NR^{20}R^{21}$, $-NR^{21}C(O)R^{20}$, $-NR^{21}C(O)OR^{20}$, $-NR^{21}C(O)NR^{20}R^{21}$ or $-NR^{21}C(NR^{21})NR^{20}R^{21}$, wherein R^{12} and R^{13} are as defined above, R^{20} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl and R^{21} at each occurrence independently is hydrogen or (C_{1-6})alkyl, or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^4OR^{22}$, $-X^4SR^{22}$, $-X^4S(O)R^{22}$, $-X^4S(O)_2R^{22}$, $-X^4C(O)R^{22}$, $-X^4C(O)OR^{22}$, $-X^4C(O)NR^{22}R^{23}$, $-X^4NR^{22}R^{23}$, $-X^4NR^{23}C(O)R^{22}$, $-X^4NR^{23}C(O)OR^{27}$, $-X^4NR^{23}C(O)NR^{22}R^{23}$ or $-X^4NR^{23}C(NR^{23})NR^{22}R^{23}$, wherein X^4 is as defined above, R^{22} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{23} at each occurrence independently is hydrogen or (C_{1-6})alkyl; wherein within R^{11} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above;

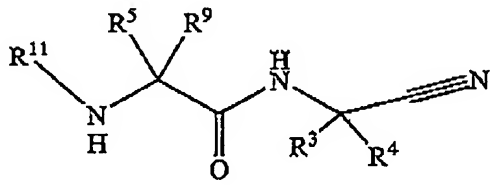
R^2 is hydrogen or (C_{1-6})alkyl or as defined below;

R^3 is hydrogen, (C_{1-6})alkyl or as defined below; and

R^4 is (i) hydrogen or (C_{1-6})alkyl, wherein said alkyl is optionally substituted with cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12}, R^{13}, R^{14} and R^{15} are as defined above, or (ii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above, or

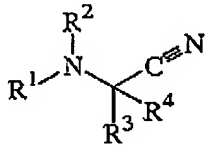
R^4 and R^2 taken together form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene, or

R^4 and R^3 together with the carbon atom to which both R^4 and R^3 are attached form (C_{3-8})cycloalkylene or (C_{3-8})heterocycloalkylene; or an *N*-oxide derivative, prodrug derivative, individual isomer and mixtures of isomers; or a pharmaceutically acceptable salt thereof, but excluding compounds of the formula



in which R^3 and R^4 are each hydrogen or (C_{1-6})alkyl, or together with the carbon atom to which they are both attached form (C_{3-5})cycloalkylene; R^5 is hydrogen or (C_{1-6})alkyl; R^9 is (C_{6-12})aryl(C_{1-6})alkyl, hetero(C_{5-12})aryl(C_{1-6})alkyl, (C_{4-5})alkyl or cyclohexylmethyl; and R^{11} is $C(O)R^{18}$ wherein R^{18} is hetero(C_{3-12})cycloalkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl.

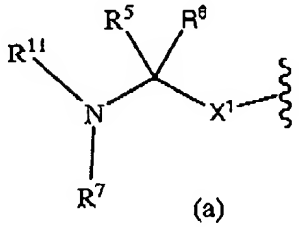
21. (Withdrawn) The use of a compound of Formula (I):



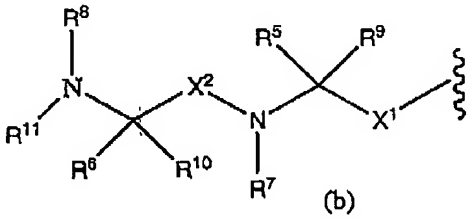
I

in which:

R^1 is a group of Formula (a) or (b):



(a)



(b)

wherein:

X^1 and X^2 independently are -C(O)- or -$CH_2S(O)_2$-;

R^5 and R^6 are hydrogen or (C_{1-6})alkyl;

R^7 and R^8 are hydrogen or (C_{1-6})alkyl or as defined below;

R^9 and R^{10} independently are (i) (C_{1-6})alkyl optionally substituted with cyano, halo or nitro or (ii) a group selected from $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^{12})OR^{12}$, $-X^3OP(O)(OR^{12})OR^{12}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$, $-X^3C(O)R^{13}$, $-X^3C(O)R^{14}$, $-X^3C(O)OR^{14}$, $-X^3OC(O)R^{14}$, $-X^3NR^{15}C(O)R^{14}$, $-X^3NR^{15}C(O)OR^{14}$, $-X^3C(O)NR^{14}R^{15}$, $-X^3S(O)_2NR^{14}R^{15}$, $-X^3NR^{15}C(O)NR^{14}R^{15}$, $-X^3NR^{15}C(NR^{15})NR^{14}R^{15}$, $-X^4SR^{14}$ $-X^4S(O)R^{14}$, $-X^4S(O)_2R^{14}$, $-X^4OR^{14}$, or $-X^4NR^{14}R^{15}$, wherein X^3 is (C_{1-6})alkylene, X^4 is a bond or (C_{1-6})alkylene, R^{12} at each occurrence independently is hydrogen,

(C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{14} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4 is a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl and R^{17} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, or (iii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^4)OR^{12}$, $-X^4OP(O)(OR^{12})OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above, or

R^9 taken together with R^7 and/or R^{10} taken together with R^8 form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene; and

R^{11} is $-X^5X^6R^{18}$, wherein X^5 is -C(O)-, -C(O)C(O)- or $-S(O)_2-$, X^6 is a bond, -O- or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl, and R^{18} is (i) (C_{1-10})alkyl optionally substituted by cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$,

$-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{20}$, $-SR^{20}$, $-S(O)R^{20}$, $-S(O)_2R^{20}$, $-C(O)R^{20}$, $-C(O)OR^{20}$, $-C(O)NR^{20}R^{21}$, $-NR^{20}R^{21}$, $-NR^{21}C(O)R^{20}$, $-NR^{21}C(O)OR^{20}$, $-NR^{21}C(O)NR^{20}R^{21}$ or $-NR^{21}C(NR^{21})NR^{20}R^{21}$, wherein R^{12} and R^{13} are as defined above, R^{20} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl and R^{21} at each occurrence independently is hydrogen or (C_{1-6})alkyl, or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl or (iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^4OR^{22}$, $-X^4SR^{22}$, $-X^4S(O)R^{22}$, $-X^4S(O)_2R^{22}$, $-X^4C(O)R^{22}$, $-X^4C(O)OR^{22}$, $-X^4C(O)NR^{22}R^{23}$, $-X^4NR^{22}R^{23}$, $-X^4NR^{23}C(O)R^{22}$, $-X^4NR^{23}C(O)OR^{22}$, $-X^4NR^{23}C(O)NR^{22}R^{23}$ or $-X^4NR^{23}C(NR^{23})NR^{22}R^{23}$, wherein X^4 is as defined above, R^{22} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{23} at each occurrence independently is hydrogen or (C_{1-6})alkyl; wherein within R^{11} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above;

R^2 is hydrogen or (C_{1-6})alkyl or as defined below;

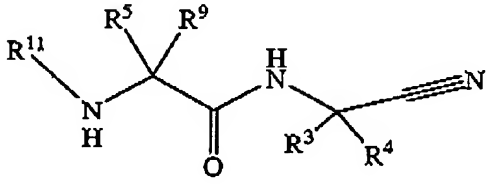
R^3 is hydrogen, (C_{1-6})alkyl or as defined below; and

R^4 is (i) hydrogen or (C_{1-6})alkyl, wherein said alkyl is optionally substituted with cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12},

R^{13}, R^{14} and R^{15} are as defined above, or (ii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^4OR^{16}$, $-X^4SR^{16}$, $-X^4S(O)R^{16}$, $-X^4S(O)_2R^{16}$, $-X^4C(O)R^{16}$, $-X^4C(O)OR^{16}$, $-X^4OC(O)R^{16}$, $-X^4NR^{16}R^{17}$, $-X^4NR^{17}C(O)R^{16}$, $-X^4NR^{17}C(O)OR^{16}$, $-X^4C(O)NR^{16}R^{17}$, $-X^4S(O)_2NR^{16}R^{17}$, $-X^4NR^{17}C(O)NR^{16}R^{17}$ or $-X^4NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^4, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^4NR^{12}R^{12}$, $-X^4NR^{12}C(O)OR^{12}$, $-X^4NR^{12}C(O)NR^{12}R^{12}$, $-X^4NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^4OR^{12}$, $-X^4SR^{12}$, $-X^4C(O)OR^{12}$, $-X^4C(O)NR^{12}R^{12}$, $-X^4S(O)_2NR^{12}R^{12}$, $-X^4P(O)(OR^3)OR^{12}$, $-X^4OP(O)(OR^3)OR^{12}$, $-X^4OC(O)R^{13}$, $-X^4NR^{12}C(O)R^{13}$, $-X^4S(O)R^{13}$, $-X^4S(O)_2R^{13}$ and $-X^4C(O)R^{13}$, wherein X^4, R^{12} and R^{13} are as defined above, or

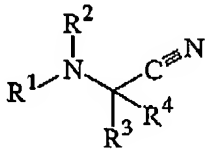
R^4 and R^2 taken together form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene, or

R^4 and R^3 together with the carbon atom to which both R^4 and R^3 are attached form (C_{3-8})cycloalkylene or (C_{3-8})heterocycloalkylene; or an *N*-oxide derivative, prodrug derivative, individual isomer and mixtures of isomers; or a pharmaceutically acceptable salt thereof, but excluding compounds of the formula



in which R^3 and R^4 are each hydrogen or (C_{1-6})alkyl, or together with the carbon atom to which they are both attached form (C_{3-5})cycloalkylene; R^5 is hydrogen or (C_{1-6})alkyl; R^9 is (C_{6-12})aryl(C_{1-6})alkyl, hetero(C_{5-12})aryl(C_{1-6})alkyl, (C_{4-5})alkyl or cyclohexylmethyl; and R^{11} is $C(O)R^{18}$ wherein R^{18} is hetero(C_{3-12})cycloalkyl, (C_{6-12})aryl(C_{0-6})alkyl or hetero(C_{5-12})aryl(C_{0-6})alkyl, in the manufacture of a medicament for treating a disease in an animal in which cathepsin S activity contributes to the pathology and/or symptomatology of the disease.

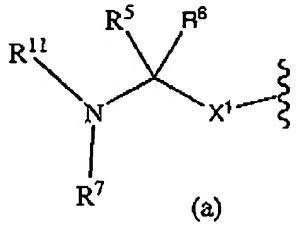
22. (Withdrawn) A process for preparing a compound of Formula I:



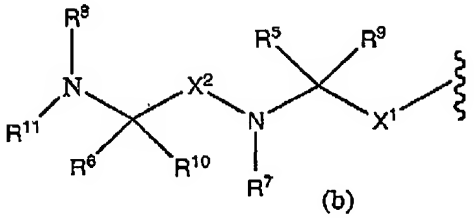
I

in which:

R^1 is a group of Formula (a) or (b):



(a)



(b)

wherein:

X^1 and X^2 independently are -C(O)- or $-CH_2S(O)_2-$;

R^5 and R^6 are hydrogen or (C_{1-6})alkyl;

R^7 and R^8 are hydrogen or (C_{1-6})alkyl or as defined below;

R^9 and R^{10} independently are (i) (C_{1-6})alkyl optionally substituted with cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12} at each occurrence independently is hydrogen, (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{13} is (C_{1-6})alkyl or halo-substituted (C_{1-3})alkyl, R^{14} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl and R^{15} is hydrogen or (C_{1-6})alkyl, and wherein within R^{14} said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^3OR^{16}$, $-X^3SR^{16}$, $-X^3S(O)R^{16}$, $-X^3S(O)_2R^{16}$, $-X^3C(O)R^{16}$, $-X^3C(O)OR^{16}$, $-X^3OC(O)R^{16}$, $-X^3NR^{16}R^{17}$, $-X^3NR^{17}C(O)R^{16}$, $-X^3NR^{17}C(O)OR^{16}$, $-X^3C(O)NR^{16}R^{17}$, $-X^3S(O)_2NR^{16}R^{17}$, $-X^3NR^{17}C(O)NR^{16}R^{17}$ or $-X^3NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^3 is

a bond or (C_{1-6})alkylene, R^{16} is hydrogen or (C_{1-6})alkyl and R^{17} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl or hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, or (ii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^3OR^{16}$, $-X^3SR^{16}$, $-X^3S(O)R^{16}$, $-X^3S(O)_2R^{16}$, $-X^3C(O)R^{16}$, $-X^3C(O)OR^{16}$, $-X^3OC(O)R^{16}$, $-X^3NR^{16}R^{17}$, $-X^3NR^{17}C(O)R^{16}$, $-X^3NR^{17}C(O)OR^{16}$, $-X^3C(O)NR^{16}R^{17}$, $-X^3S(O)_2NR^{16}R^{17}$, $-X^3NR^{17}C(O)NR^{16}R^{17}$ or $-X^3NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^3, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^3)OR^{12}$, $-X^3OP(O)(OR^3)OR^{12}$, $-X^3OC(O)R^{13}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$ and $-X^3C(O)R^{13}$, wherein X^3, R^{12} and R^{13} are as defined above, or

R^9 taken together with R^7 and/or R^{10} taken together with R^8 form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene; and

R^{11} is $-X^4X^5R^{18}$, wherein X^4 is -C(O)-, -C(O)C(O)- or $-S(O)_2-$, X^5 is a bond, -O- or $-NR^{19}-$, wherein R^{19} is hydrogen or (C_{1-6})alkyl, and R^{18} is (i) (C_{1-10})alkyl optionally substituted by cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{20}$, $-SR^{20}$, $-S(O)R^{20}$, $-S(O)_2R^{20}$, $-C(O)R^{20}$, $-C(O)OR^{20}$, $-C(O)NR^{20}R^{21}$, $-NR^{20}R^{21}$, $-NR^{21}C(O)R^{20}$, $-NR^{21}C(O)OR^{20}$, $-NR^{21}C(O)NR^{20}R^{21}$ or $-NR^{21}C(NR^{21})NR^{20}R^{21}$, wherein R^{12} and R^{13} are as defined above, R^{20} is (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl and R^{21} at each occurrence independently is hydrogen or (C_{1-6})alkyl, or (ii) (C_{3-12})cycloalkyl(C_{0-6})alkyl,

hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})bicycloaryl(C_{0-6})alkyl or hetero(C_{8-12})bicycloaryl(C_{0-6})alkyl or

(iii) (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, phenyl or heteroaryl is substituted by $-X^3OR^{22}$, $-X^3SR^{22}$, $-X^3S(O)R^{22}$, $-X^3S(O)_2R^{22}$, $-X^3C(O)R^{22}$, $-X^3C(O)OR^{22}$, $-X^3C(O)NR^{22}R^{23}$, $-X^3NR^{22}R^{23}$, $-X^3NR^{23}C(O)R^{22}$, $-X^3NR^{23}C(O)OR^{22}$, $-X^3NR^{23}C(O)NR^{22}R^{23}$ or $-X^3NR^{23}C(NR^{23})NR^{22}R^{23}$, wherein X^3 is as defined above, R^{22} is (C_{3-6})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-6})cycloalkyl(C_{0-6})alkyl, phenyl(C_{0-6})alkyl or hetero(C_{5-6})aryl(C_{0-6})alkyl and R^{23} at each occurrence independently is hydrogen or (C_{1-6})alkyl; wherein within R^{11} any alicyclic or aromatic ring system present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^3)OR^{12}$, $-X^3OP(O)(OR^3)OR^{12}$, $-X^3OC(O)R^{13}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$ and $-X^3C(O)R^{13}$, wherein X^3, R^{12} and R^{13} are as defined above;

R^2 is hydrogen or (C_{1-6})alkyl or as defined below;

R^3 is hydrogen, (C_{1-6})alkyl or as defined below; and

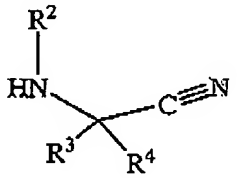
R^4 is (i) hydrogen or (C_{1-6})alkyl, wherein said alkyl is optionally substituted with cyano, halo, nitro, $-NR^{12}R^{12}$, $-NR^{12}C(O)OR^{12}$, $-NR^{12}C(O)NR^{12}R^{12}$, $-NR^{12}C(NR^{12})NR^{12}R^{12}$, $-OR^{12}$, $-SR^{12}$, $-C(O)OR^{12}$, $-C(O)NR^{12}R^{12}$, $-S(O)_2NR^{12}R^{12}$, $-P(O)(OR^{12})OR^{12}$, $-OP(O)(OR^{12})OR^{12}$, $-NR^{12}C(O)R^{13}$, $-S(O)R^{13}$, $-S(O)_2R^{13}$, $-C(O)R^{13}$, $-OR^{14}$, $-SR^{14}$, $-S(O)R^{14}$, $-S(O)_2R^{14}$, $-C(O)R^{14}$, $-C(O)OR^{14}$, $-OC(O)R^{14}$, $-NR^{14}R^{15}$, $-NR^{15}C(O)R^{14}$, $-NR^{15}C(O)OR^{14}$, $-C(O)NR^{14}R^{15}$, $-S(O)_2NR^{14}R^{15}$, $-NR^{15}C(O)NR^{14}R^{15}$ or $-NR^{15}C(NR^{15})NR^{14}R^{15}$, wherein R^{12}, R^{13}, R^{14} and R^{15} are as defined above, or (ii) a group selected from (C_{3-12})cycloalkyl(C_{0-6})alkyl, hetero(C_{3-12})cycloalkyl(C_{0-6})alkyl, (C_{6-12})aryl(C_{0-6})alkyl, hetero(C_{5-12})aryl(C_{0-6})alkyl, (C_{9-12})polycycloaryl(C_{0-6})alkyl and hetero(C_{8-12})polycycloaryl(C_{0-6})alkyl, wherein said cycloalkyl, heterocycloalkyl, aryl, heteroaryl, polycycloaryl or heterpolycycloaryl ring optionally is substituted by a group selected from $-R^{16}$, $-X^3OR^{16}$, $-X^3SR^{16}$, $-X^3S(O)R^{16}$, $-X^3S(O)_2R^{16}$, $-X^3C(O)R^{16}$, $-X^3C(O)OR^{16}$, $-X^3OC(O)R^{16}$, $-X^3NR^{16}R^{17}$, $-X^3NR^{17}C(O)R^{16}$, $-X^3NR^{17}C(O)OR^{16}$, $-X^3C(O)NR^{16}R^{17}$, $-X^3S(O)_2NR^{16}R^{17}$, $-X^3NR^{17}C(O)NR^{16}R^{17}$ or $-X^3NR^{17}C(NR^{17})NR^{16}R^{17}$, wherein X^3, R^{16} and R^{17} are as defined above; wherein within R^9 and/or R^{10} any alicyclic or aromatic ring system

present may be substituted further by 1 to 5 radicals independently selected from (C_{1-6})alkyl, (C_{1-6})alkylidene, cyano, halo, halo-substituted (C_{1-4})alkyl, nitro, $-X^3NR^{12}R^{12}$, $-X^3NR^{12}C(O)OR^{12}$, $-X^3NR^{12}C(O)NR^{12}R^{12}$, $-X^3NR^{12}C(NR^{12})NR^{12}R^{12}$, $-X^3OR^{12}$, $-X^3SR^{12}$, $-X^3C(O)OR^{12}$, $-X^3C(O)NR^{12}R^{12}$, $-X^3S(O)_2NR^{12}R^{12}$, $-X^3P(O)(OR^3)OR^{12}$, $-X^3OP(O)(OR^3)OR^{12}$, $-X^3OC(O)R^{13}$, $-X^3NR^{12}C(O)R^{13}$, $-X^3S(O)R^{13}$, $-X^3S(O)_2R^{13}$ and $-X^3C(O)R^{13}$, wherein X^3, R^{12} and R^{13} are as defined above, or

R^4 and R^2 taken together form trimethylene, tetramethylene or phenylene-1,2-dimethylene, optionally substituted with hydroxy, oxo or methylene, or

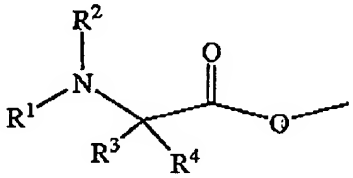
R^4 and R^3 together with the carbon atom to which both R^4 and R^3 are attached form (C_{3-8})cycloalkylene or (C_{3-8})heterocycloalkylene; and the *N*-oxide derivatives, prodrug derivatives, protected derivatives, individual isomers and mixtures of isomers; and the pharmaceutically acceptable salts thereof; which process comprises:

(A) reacting a compound of Formula 2:



or a protected derivative thereof, with a compound of the formula R^1OY, or a protected derivative thereof, in which Y is hydrogen or 2,5-dioxopyrrolidin-1-yl and each R^1, R^2, R^3 and R^4 are as defined above; or

(B) reacting a compound of Formula 3:



or a protected derivative thereof, with ammonia to provide a corresponding amide and then reacting the amide with trifluoroacetic anhydride, in which each R^1, R^2, R^3 and R^4 are as defined above;

(C) optionally deprotecting a protected derivative of a compound of Formula I to provide a corresponding unprotected derivative;

(D) optionally converting a compound of Formula I into a pharmaceutically acceptable salt;

(E) optionally converting a salt form of a compound of Formula I to non-salt form;

(F) optionally converting an unoxidized form of a compound of Formula I into a pharmaceutically acceptable *N*-oxide;

(G) optionally converting an *N*-oxide form of a compound of Formula I its unoxidized form;

(H) optionally converting a non-derivatized compound of Formula I into a pharmaceutically prodrug derivative; and

(I) optionally converting a prodrug derivative of a compound of Formula I to its non-derivatized form.